

[A] a throat lozenge may comprise just a lysin enzyme (which lyses the *Streptococcus A* strain causing "strep" throat, or it may also include the lytic enzymes for *Hemophilus*. Similarly, the carrier for treating burns and wounds, or infections of the skin, may contain just one lytic enzyme, or a combination of lytic enzymes, for the treatment of *Pseudomonas*, *Streptococcus*, *Staphylococcus*, or any other of a number of bacteria.

IN THE CLAIMS

Please cancel claims 19-45, and add the following claims:

- 46) A lozenge for treating an upper respiratory tract bacterial infection caused by *Streptococcus Group A*, wherein said composition is produced by the method of:
 - a) obtaining an effective amount of at least one lytic enzyme genetically coded for by at least one bacteriophage specific for said *Streptococcus Group A*, said at least one specific lytic enzyme having the ability to specifically digest a cell wall of said *Streptococcus Group A* and,
 - b) mixing said at least one lytic enzyme produced in step (a) with a lozenge carrier for delivering said enzyme to a mouth, throat, or nasal passage.
- 47) The composition according to claim 46, wherein said at least one lytic enzyme is present in a concentration of about 100 to about 10,0000 active enzyme units per milliliter of fluid in the wet environment of the nasal or oral passages.
- 48) A lozenge for treating an upper respiratory tract bacterial infection caused by *Streptococcus*

Group A, said lozenge comprising:

- (a) an effective amount of at least one lytic enzyme genetically coded for by at least one bacteriophage specific for said *Streptococcus Group A*, said at least one specific lytic enzyme having the ability to specifically digest a cell wall of said *Streptococcus Group A*; and,
- (b) a lozenge carrier for delivering said enzyme to a mouth, throat, or nasal passage.

- 49) The composition according to claim 48, wherein said composition further comprises a buffer that maintains a pH of the composition at a range between about 4.0 and 9.0.
- 50) The composition according to claim 49, wherein the buffer maintains the pH of the composition at the range between 5.5 and 7.5.
- 51) The composition according to claim 49, wherein said buffer comprises a reducing reagent.
- 52) The composition according to claim 51, wherein said reducing agent is dithiothreitol.
- 53) The composition according to claim 49, wherein said buffer comprises a metal chelating reagent.
- 54) The composition according to claim 53, wherein said metal chelating reagent is ethylenediaminetetraacetic disodium salt.